

Vibration diagnostic system for the running gear of six-axle wheeled vehicles consists of a first multiplexer connected to two accelerometers, which are used to record the vibration acceleration parameters of the vehicle's steered axle housing in the vertical plane, and the second, third, fourth, and fifth multiplexers, connected to four pairs of accelerometers, respectively, which are used to record the vibration acceleration parameters of the housings of the wheeled vehicle's four intermediate axles in the vertical plane; and a sixth multiplexer connected to accelerometers, which are used to record the vibration acceleration parameters of the rear axle housing of the wheeled vehicle in the vertical plane; and an analog-to-digital converter connected to the six multiplexers and a computing device, the output of which is connected to a monitor and a printer. Furthermore, one accelerometer is installed on each side of the steered axle, the four intermediate axles, and the rear axle of the wheeled vehicle to record the vibration acceleration parameters of the vehicle's axle housings in the horizontal plane, and one accelerometer is installed on each side of the steered axle, four intermediate axles, and the rear axle of the wheeled vehicle to record the vibration acceleration parameters of the wheeled vehicle's axle housings in the frontal plane. Wherein the accelerometers are mounted on the wheeled vehicle's axle housings and connected to multiplexers.